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PTO/SB/08a (07-05)

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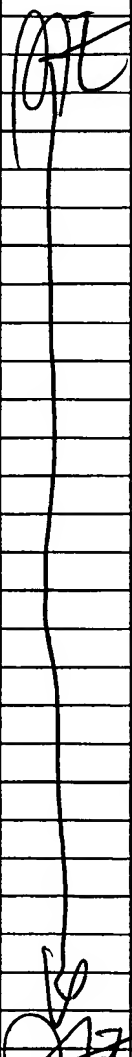
**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 10

Application Number	10/801,190
Filing Date	March 15, 2004
First Named Inventor	Lihua Li, et al.
Group Art Unit	2891
Examiner Name	Granvill D. Lee
Attorney Docket Number	APPM/008670/DSM/LOW K/JW
Submission Date	September 29, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-3,510,369	5/5/1970	Emick, et al.	
	A2	US-4,262,631	4/21/1981	Kubacki	
	A3	US-4,532,150	7/30/1985	Endo et al.	
	A4	US-4,634,601	1/6/1987	Hamakawa, et al.	
	A5	US-4,649,071	3/10/1987	Tajima, et al.	
	A6	US-4,759,947	7/26/1988	Hishihara, et al.	
	A7	US-4,872,947	10/10/1989	Wang, et al.	
	A8	US-4,894,352	1/16/1990	Lane, et al.	
	A9	US-4,895,734	1/23/1990	Yoshida, et al.	
	A10	US-4,951,601	8/28/1990	Maydan, et al.	
	A11	US-4,981,724	1/1/1991	Hochberg, et al.	
	A12	US-5,000,113	3/19/1991	Wang, et al.	
	A13	US-5,000,178	3/19/1991	Griffith	
	A14	US-5,011,706	4/30/1991	Tarhay, et al.	
	A15	US-5,086,014	2/4/1992	Miyata, et al.	
	A16	US-5,087,959	2/11/1992	Omorí, et al.	
	A17	US-5,224,441	7/6/1993	Felts, et al.	
	A18	US-5,238,866	8/24/1993	Bolz, et al.	
	A19	US-5,242,530	9/7/1993	Batey, et al.	
	A20	US-5,271,972	12/21/1993	Kwok, et al.	
	A21	US-5,298,587	3/29/1994	Hu, et al.	
	A22	US-5,298,597	3/29/1994	You, et al.	
	A23	US-5,360,491	11/1/1994	Carey, et al.	
	A24	US-5,362,526	11/8/1994	Wang, et al.	
	A25	US-5,465,680	11/14/1995	Loboda	
	A26	US-5,468,978	11/21/1995	Dowben	
	A27	US-5,480,300	1/2/1996	Okoshi, et al.	
	A28	US-5,494,712	2/27/1996	Hu, et al.	

Examiner

Date Considered

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

10

Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

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		Number-Kind Code ² (if known)			
	A29	US-5,554,570	9/10/1996	Maeda, et al.	
	A30	US-5,565,084	10/15/1996	Lee, et al.	
	A31	US-5,591,566	1/7/1997	Ogawa	
	A32	US-5,607,773	3/4/1997	Ahlburn, et al.	
	A33	US-5,638,251	6/10/1997	Goel, et al.	
	A34	US-5,641,607	6/24/1997	Ogawa, et al.	
	A35	US-5,658,834	8/19/1997	Dowben	
	A36	US-5,691,209	11/25/1997	Liberkowski	
	A37	US-5,710,067	1/20/1998	Footo, et al.	
	A38	US-5,711,987	1/27/1998	Bearinger, et al.	
	A39	US-5,730,792	3/24/1998	Camilletti, et al.	
	A40	US-5,741,626	4/21/1998	Jain, et al.	
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	A43	US-5,789,316	8/4/1998	Lu	
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	A45	US-5,817,572	10/6/1998	Chiang, et al.	
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	A47	US-5,818,071	10/6/1998	Loboda, et al.	
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	A49	US-5,869,396	2/9/1999	Pan, et al.	
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	A51	US-5,926,740	7/20/1999	Forbes, et al.	
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	A53	US-5,989,998	11/23/1999	Sugahara, et al.	
	A54	US-6,045,877	4/4/2000	Gleason, et al.	

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Date Considered

11/19/05

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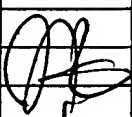
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		Group Art Unit	2891
		Examiner Name	Granvill D. Lee
		Attorney Docket Number	APPM/008670/DSM/LOW K/JW
Sheet 3 of 10	Submission Date	September 29, 2005	

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		Number-Kind Code ² (if known)			
	A55	US-6,051,321	4/18/2000	Lee, et al.	
	A56	US-6,054,379	4/25/2000	Yau, et al.	
	A57	US-6,057,251	5/2/2000	Goo, et al.	
	A58	US-6,060,132	5/9/2000	Lee	
	A59	US-6,068,884	5/30/2000	Rose, et al.	
	A60	US-6,071,809	6/6/2000	Zhao	
	A61	US-6,072,227	6/6/2000	Yau, et al.	
	A62	US-6,080,526	6/27/2000	Yang, et al.	
	A63	US-6,107,192	8/22/2000	Subrahmanyam, et al.	
	A64	US-6,124,641	9/26/2000	Matsuura	
	A65	US-6,140,226	10/31/2000	Grill, et al.	
	A66	US-6,147,009	11/14/2000	Grill, et al.	
	A67	US-6,153,537	11/28/2000	Bacchetta, et al.	
	A68	US-6,159,871	12/12/2000	Loboda, et al.	
	A69	US-6,242,339	6/5/2001	Aoi	
	A70	US-6,251,770	6/26/2001	Uglow, et al.	
	A71	US-6,287,990	9/11/2001	Cheung et al.	
	A72	US-6,291,334	9/18/2001	Somekh	
	A73	US-6,303,523	10/16/2001	Cheung, et al.	
	A74	US-6,312,793	11/6/2001	Grill, et al.	
	A75	US-6,316,167	11/13/2001	Angelopoulos, et al.	
	A76	US-6,331,494	12/18/2001	Olson, et al.	
	A77	US-6,340,435	1/22/2002	Bjorkman, et al.	
	A78	US-6,340,628	1/22/2002	Van Cleemput, et al.	
	A79	US-6,344,693	2/5/2002	Kawahara, et al.	
	A80	US-6,348,725	2/19/2002	Cheung, et al.	
	A81	US-6,350,670	2/26/2002	Andideh, et al.	
	A82	US-6,352,945	3/5/2002	Matsuki, et al.	

Examiner 

Date Considered 11/19/05

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of

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Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

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		Number-Kind Code ² (if known)			
	A83	US-6,362,091	3/26/2002	Andideh, et al.	
	A84	US-6,383,955	5/7/2002	Matsuki, et al.	
	A85	US-6,409,238	6/25/2002	Mikenis, et al.	
	A86	US-6,410,462	6/25/2002	Yang, et al.	
	A87	US-6,410,463	6/25/2002	Matsuki, et al.	
	A88	US-6,413,583	7/2/2002	Moghadam, et al.	
	A89	US-6,432,846	8/13/2002	Matsuki	
	A90	US-6,436,824	8/20/2002	Chooi, et al.	
	A91	US-6,437,443	8/20/2002	Grill, et al.	
	A92	US-6,441,491	8/27/2002	Grill, et al.	
	A93	US-6,444,568	9/3/2002	Sundararajan, et al.	
	A94	US-6,455,445	9/24/2002	Matsuki, et al.	
	A95	US-6,465,366	10/15/2002	Nemani, et al.	
	A96	US-6,479,110	11/12/2002	Grill, et al.	
	A97	US-6,479,409	11/12/2002	Shloya, et al.	
	A98	US-6,486,061	11/26/2002	Xia, et al.	
	A99	US-6,486,082	11/26/2002	Cho, et al.	
	A100	US-6,489,238	12/3/2002	TSUI	
	A101	US-6,500,773	12/31/2002	Gaillard, et al.	
	A102	US-6,511,903	1/28/2003	Yau, et al.	
	A103	US-6,511,909	1/28/2003	Yau, et al.	
	A104	US-6,521,300	2/18/2003	Hsieh, et al.	
	A105	US-6,521,302	2/18/2003	CAMPANA-SCHMITT, ET AL.	
	A106	US-6,528,423	3/4/2003	Catabay, et al.	
	A107	US-6,531,714	3/11/2003	Bacchetta, et al.	
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	A109	US-6,537,733	3/25/2003	Campana, et al.	
	A110	US-6,537,929	3/25/2003	Cheung, et al.	
	A111	US-6,541,282	4/1/2003	Cheung, et al.	

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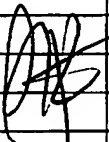
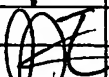


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	A112	US-6,541,369	4/1/2003	Huang, et al.	
	A113	US-6,541,398	4/1/2003	Grill, et al.	
	A114	US-6,548,899	4/15/2003	Ross	
	A115	US-6,555,476	4/29/2003	Olsen, et al.	
	A116	US-6,559,520	5/6/2003	Matsuki, et al.	
	A117	US-6,562,690	5/13/2003	Cheung, et al.	
	A118	US-6,570,256	5/27/2003	Conti, et al.	
	A119	US-6,573,196	6/3/2003	Gaillard, et al.	
	A120	US-6,582,777	6/24/2003	Ross, et al.	
	A121	US-6,583,048	6/24/2003	Vincent, et al.	
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	A123	US-6,592,890	7/15/2003	Green	
	A124	US-6,593,247	7/15/2003	Huang, et al.	
	A125	US-6,593,633	7/15/2003	Jan, et al.	
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	A127	US-6,596,655	7/22/2003	Cheung, et al.	
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	A129	US-6,624,053	9/23/2003	Passemar	
A130	US-6,627,532	9/30/2003	Gaillard, et al.		
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A135	US-6,660,656	12/9/2003	Cheung, et al.		
A136	US-6,660,663	12/9/2003	Cheung, et al.		
	A137	US-6,673,725	1/6/2004	Shioya, et al.	
	A138	US-6,703,302	3/9/2004	Miyajima, et al.	

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Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

September 29, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A137	US-6,673,725	1/6/2004	Shloya, et al.	
	A138	US-6,703,302	3/9/2004	Miyajima, et al.	
	A139	US-6,730,593	5/4/2004	Yau, et al.	
	A140	US-6,734,115	5/11/2004	Cheung, et al.	
	A141	US-6,734,533	5/11/2004	Wong	
	A142	US-6,737,365	5/18/2004	Kloster, et al.	
	A143	US-6,740,539	5/25/2004	Conti, et al.	
	A144	US-6,756,323	6/29/2004	Grill, et al.	
	A145	US-6,756,674	6/29/2004	Catabay, et al.	
	A146	US-6,759,327	7/6/2004	Xia, et al.	
	A147	US-6,770,573	8/3/2004	Grill, et al.	
	A148	US-6,784,119	8/31/2004	Gaillard, et al.	
	A149	US-6,790,789	9/14/2004	Grill, et al.	
	A150	US-6,806,185	10/19/2004	Li, et al.	
	A151	US-6,806,207	10/19/2004	Huang, et al.	
	A152	US-6,844,612	1/18/2005	Tian, et al.	
	A153	US-6,849,561	2/1/2005	Goundar, et al.	
	A154	US-6,887,780	5/3/2005	Andideh, et al.	
	A155	US-6,902,440	6/7/2005	Dougan, et al.	
	A156	US-6,903,004	6/7/2005	Spencer, et al.	
	A157	US-6,913,992	7/5/2005	Schmitt, et al.	
	A158	US-2001/0005546	6/28/2001	Cheung, et al.	
	A159	US-2002/0000870	1/3/2002	Yau, et al.	
	A160	US-2002/0054962	5/9/2002	Huang	
	A161	US-2002/0054982	5/9/2002	Deitrich, et al.	
	A162	US-2002/0093075	7/18/2002	Gates, et al.	
	A163	US-2002/0098714	7/25/2002	Grill, et al.	
	A164	US-2002/0111042	8/15/2002	Yau, et al.	

Examiner

Date Considered

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PTO/SB/08a (07-05)

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/801,190
		Filing Date	March 15, 2004
		First Named Inventor	Lihua Li, et al.
		Group Art Unit	2891
		Examiner Name	Granvill D. Lee
		Attorney Docket Number	APPM/008670/DSM/LOW K/JW
Sheet 7	of 10	Submission Date	September 29, 2005

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A165	US-2002/0160626	10/31/2002	Matsuki, et al.	
	A166	US-2002/0172766	11/21/2003	Laxman, et al.	
	A167	US-2002/0182894	12/5/2002	ANDIDEH, et al.	
	A168	US-2003/0001282	1/2/2003	Meynen, et al.	
	A169	US-2003/0003765	1/2/2003	Gibson, Jr., et al.	
	A170	US-2003/0022526	1/30/2003	Vyvoda, et al.	
	A171	US-2003/0032274	2/13/2003	Daniels, et al.	
	A172	US-2003/0035904	2/20/2003	Hseih, et al.	
	A173	US-2003/0042605	3/6/2003	Andideh, et al.	
	A174	US-2003/0064154	4/3/2003	Laxman, et al.	
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A179	US-2003/0111730	6/19/2003	Takeda, et al.		
A180	US-2003/0129827	7/10/2003	Lee, et al.		
A181	US-2003/0139035	7/24/2003	Yim, et al.		
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A183	US-2003/0194495	10/16/2003	Li, et al.		
A184	US-2003/0198742	10/23/2003	Vrtis		
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A186	US-2003/0232495	12/18/2003	Moghadam, et al.		
A187	US-2004/0048490	3/11/2004	Tsuji, et al.		
A188	US-2004/0076764	4/22/2004	Forester, et al.		
A189	US-2004/0076767	4/22/2004	Sato, et al.		
A190	US-2004/0096593	5/20/2004	Lukas, et al.		
A191	US-2004/0096672	5/20/2004	Lukas, et al.		
A192	US-2004/0155340	8/12/2004	Owada, et al.		

Examiner Date Considered

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

8

of

10

Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

September 29, 2005

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
[Signature]	A193	US-2004/0166665	8/26/2004	Gaillard, et al.	
	A194	US-2004/0175957	9/9/2004	Lukas, et al.	
	A195	US-2004/0195693	10/7/2004	Kolster, et al.	
	A196	US-2004/0253388	12/16/2004	Kim	
[Signature]	A197	US-2005/0009320	1/13/2005	Goundar, et al.	
	A198	US-2005/0026422	2/3/2005	Kim, et al.	
	A199	US-2005/0051900	3/10/2005	Liu, et al.	
	A200	US-2005/0059258	3/17/2005	Edelstein, et al.	
	A201	US-2005/0084726	3/24/2005	Reid, et al.	
	A202	US-2005/0118799	6/2/2005	Wu	
	A203	US-2005/0130405	6/16/2005	Spencer, et al.	
	A204	US-2005/0140029	6/30/2005	Li, et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
[Signature]	B1	DE 196 54 737 (Eng. Transl.)	12/30/1996	Itoh, et al.		X
	B2	DE 199 04 311 (Eng. Abstract)	8/12/1999	Shu, et al.		X
	B3	EP 0 613 178	2/22/1994	Michael		
	B4	EP 0 725 440	8/7/1996	Loboda, et al.		
[Signature]	B5	EP 1 029 728	8/23/2000	Antonelli		
	B6	EP 1 107 303	6/13/2001	Shao, et al.		
	B7	EP 1 176 226	1/30/2002	Nemani, et al.		
	B8	EP 1 354 980	10/22/2003	Vrtis, et al.		
	B9	JP 09-008031 (Eng. Abstract)	1/10/1997	Toshiaki		X
	B10	JP 09-320075 (Eng. Abstract)	12/09/1997	Seiji, et al.		X
	B11	JP 09-321175 (Eng. Abstract)	12/12/1997	Seiji, et al.		X
	B12	JP 9-237785	7/3/1997	Itoh, et al.		
[Signature]	B13	WO 00/19498	4/6/2000	Huang		
	B14	WO 00/20900	04/13/2000	Bencher, et al.		
	B15	WO 01/61737	8/23/2001	Ross, et al.		
	B16	WO 99/21706	5/6/1999	Lee, et al.		
	B17	WO 99/33102	7/1/1999	Somakh		
	B18	WO 99/41423	8/18/1999	Cheung, et al.		

Examiner

Date Considered

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		Filing Date	March 15, 2004
		First Named Inventor	Lihua Li, et al.
		Group Art Unit	2891
		Examiner Name	Granvill D. Lee
		Attorney Docket Number	APPM/008670/DSM/LOW K/JW
Sheet 9	of 10	Submission Date	September 29, 2005

PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C1	Dijkstra et al., "Optimization of Anti-Reflection Layers for Deep UV Lithography", Proceedings of SPIE Optical/Laser Microlithography, Bellingham, SPIE, vol. 1927, 1993, pages 275-286.	
	C2	FUKUDA, ET AL. "Highly Reliable SiOF Film Formation by ECR-CVD Using SiF ₂ H ₂ ", Symposium on VLSI Technology Digest of Technical Papers IEEE (1996) pp. 114-115.	
	C3	Ogawa et al., "Novel ARC Optimization Methodology for KrF Excimer Laser Lithography at Low K1 Factor", Proceedings of the SPIE. Optical/Laser Microlithography V, vol. 1674, 1992, pages 362-375.	
	C4	Omar, M.A., "Elementary Solid State Physics: Principles and Applications," Lowell Technological Institute, Addison-Wesley Publishing Company, © 1975, Pages: 124, 125.	
	C5	PCT International Search Report dated February 11, 2000 for PCT/US99/22425.	
	C6	PCT International Search Report for PCT/US2004/006849, dated January 19, 2005 (AMAT/7838.PC)	
	C7	PCT International Search Report for US/02/36229, dated September 3, 2003 (AMAT/6392.PC)	
	C8	PCT International Written Opinion for PCT/US2004/006849, dated January 19, 2005 (AMAT/7838.PC)	
	C9	PCT Partial International Search Report dated March 21, 2000, for PCT/US99/22317.	
	C10	PCT Partial International Search Report for PCT/US2004/006849, dated October 15, 2004 (AMAT/7838.PC)	
	C11	PCT/International Search Report for US/02/40034 dated May 19, 2003	
	C12	TAJIMA, ET AL. "Characterization of Plasma Polymers from Tetramethylsilane, Octamethylcyclotetrasiloxane, and Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 25 (1987) pp. 1737-1744.	
Examiner	Date Considered 11/19/05		

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PTO/SB/08a (07-05)

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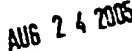
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Substitute for form 1449A/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/801,190
		Filing Date	March 15, 2004
		First Named Inventor	Lihua Li, et al.
		Group Art Unit	2891
		Examiner Name	Granvill D. Lee
		Attorney Docket Number	APPM/008670/DSM/LOW K/JW
Sheet 10	of 10	Submission Date	September 29, 2005

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C13	U.S. Patent Application No. 09/270,039, filed on March 16, 1999, Huang. (AMAT/2966.X3)	
	C14	U.S. Patent Application Serial No. 11/142,124, filed on June 1, 2005 (APPM/009516)	
	C15	Written Opinion, from PCT/US99/22424, dated April 5, 2001. (AMAT/2966.03 PC)	
	C16	Wu, et al "Advanced Metal Barrier Free Cu Damascene Interconnects with PECVD Silicon Carbide Barriers for 90/65-nm BEOL Technology", 2002 IEEE, IEDM Pages 595-598.	
Examiner		Date Considered 11/19/05	

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	2
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Complete if Known

Application Number	10/801,190
Filing Date	MARCH 15, 2004
First Named Inventor	LIHUA LI, ET AL.
Art Unit	2891
Examiner Name	GRANVILL D. LEE
Attorney Docket Number	APPM/008670/DSM/LOW K/JW

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

11/19/05

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				Sheet	2

[illegible]

Examiner Signature		Date Considered	11/19/15
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